



## Anti-SPP1 (aa 148-257) polyclonal antibody (DPAB-DC2953)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	The protein encoded by this gene is involved in the attachment of osteoclasts to the mineralized bone matrix. The encoded protein is secreted and binds hydroxyapatite with high affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding different isoforms have been found for this gene.
<b>Immunogen</b>	SPP1 (NP_000573, 148 a.a. ~ 257 a.a) partial recombinant protein with GST tag. The sequence is  SVVYGLRSKSKFRRPDIQYPDATDEDITSHMESEELNGAYKAIPVAQDNLNAPSDWDSRG KDSYETSQLDDQSAETHSHKQSRLYKRKANDESNEHSDVIDSQELSKVSR
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

### GENE INFORMATION

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<b>Gene Name</b>	<a href="#">SPP1 secreted phosphoprotein 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	SPP1
<b>Synonyms</b>	SPP1; secreted phosphoprotein 1; OPN; BNSP; BSPI; ETA-1; osteopontin; uropontin; nephropontin; SPP1/CALPHA1 fusion; urinary stone protein; early T-lymphocyte activation 1; osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein; secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1);
<b>Entrez Gene ID</b>	<a href="#">6696</a>
<b>Protein Refseq</b>	<a href="#">NP_000573</a>
<b>UniProt ID</b>	<a href="#">A0A024RDE6</a>
<b>Chromosome Location</b>	4q22.1
<b>Pathway</b>	BDNF signaling pathway; Direct p53 effectors; ECM-receptor interaction; Extracellular matrix organization
<b>Function</b>	cytokine activity; extracellular matrix binding; protein binding;

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